



INVESTOR IN PEOPLE

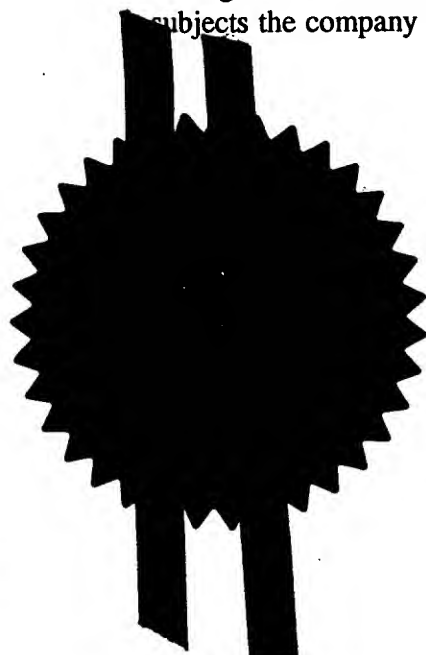
The Patent Office
Concept House
Cardiff Road
Newport
South Wales
NP10 8QQ

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Dated 16 July 2001

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19 JUL 2000

NEWPORT

19JUL00 E553817-4 D02896
P01/7700 0.00-0017583.6**Request for grant of a patent**

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road
Newport
South Wales
NP10 8QQ

1. Your reference

MRH. PO4399GB

2. Patent application number

(The Patent Office will fill in this part)

0017583.6

19 JUL 2000

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Arjo Limited
St Catherine Street
Gloucester
GL1 2SL

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

United Kingdom

4. Title of the invention

A DISPOSABLE COVER FOR A LIFTING SLING

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

A R Davies & Co
27 Imperial Square
Cheltenham
GL50 1RQ

Patents ADP number (if you know it)

570001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
(if you know it)

Date of filing
(day / month / year)

GB

0016754.4

8th July 2000

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

Yes

- a) any applicant named in part 3 is not an inventor, or
- b) there is an inventor who is not named as an applicant, or
- c) any named applicant is a corporate body.

See note (d))

Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form.
Do not count copies of the same document

Continuation sheets of this form

Description	5
Claim(s)	2
Abstract	1
Drawing(s)	2 + 2

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination and search (*Patents Form 9/77*)

Request for substantive examination (*Patents Form 10/77*)

Any other documents
(please specify)

P 23/77

11. I/We request the grant of a patent on the basis of this application.

Signature

A R Davies & Co

Date

A R Davies & Co

18th July 2000

12. Name and daytime telephone number of person to contact in the United Kingdom

Mr M R Higgins
01242 524520

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Notes

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A DISPOSABLE COVER FOR A LIFTING SLING

This invention relates to a cover for a lifting sling and to a method of preventing cross-infection between patients lifted in body support slings particularly, but not exclusively, one-piece lifting slings. Such slings support the back and thighs of a patient, being suspended from a hoist by detachable suspension means, such as straps or the like.

Most known slings are formed from woven, synthetic textile material and are relatively expensive to make. The slings are used, *inter alia*, to support patients, e.g. to the toilet. Accidents do occur and cross-infection between patients has become a major issue. As a result, some hospitals have banned the use of slings.

Laundrying does not always kill off the organisms which cause infections, particularly when laundrying at temperatures which the slings will withstand. As a result, slings have been laundryed and, more particularly, dried at temperatures greater than the slings will withstand in an attempt to kill off all infectious organisms and this has resulted in the destruction of slings.

According to a first aspect of the present invention, there is provided a disposable cover for a lifting sling comprising two sheets (or sheet portions) of non-woven impermeable material secured together along first edges to define therebetween a pocket for receiving a lifting sling.

Preferred and/or optional features of the first aspect of the invention are set out in claims 1 to 7, inclusive.

According to a second aspect of the invention, there is provided a method
5 of preventing cross-infection between patients lifted in body support slings suspended from a lifting hoist, the method comprising the steps of:

- a. providing a disposable cover on the sling.
- b. lifting the patient in the sling, and
- 10 c. disposing of the cover prior to lifting another patient with the sling.

Preferred and/or optional features of the second aspect of the invention are set out in claims 10 and 11.

15 It has been found that these disposable sling covers can be made at a fraction of the cost of slings of woven material. It is, therefore, possible to dedicate the covers to a single toileting procedure and to dispose of the covers thereafter.

The invention will now be more particularly described, by way of example,
20 with reference to the accompanying drawings in which:

Figures 1 and 2 are perspective views illustrating one embodiment of a sling cover according to the invention.

Referring to the drawings, the disposable sling cover 10 shown therein is formed of two sheets 11,12 of non-woven impermeable material, such as spun bond polyester. Each sheet 11,12 comprises a main portion 13 for receiving a main portion of a sling which portion in use supports the lower back of a patient and lower end of dependent leg portions 14 and 15 for receiving lower end dependent leg portions of a sling which portions in use, respectively, extend beneath and upwardly between the thighs of a patient.

The two sheets 11, 12 are secured together, such as by stitching, along outer side edges of the main portion 13, along the lowermost edge of the main portion 13 between the dependent leg portions 14 and 15 and along the outer and inner edges of the lower end dependent leg portions 14 and 15. The two sheets 11, 12 are not secured together along the uppermost edge of the main portion 13 so as to allow a sling to be inserted into the pocket between the two sheets and they are not secured together at the lowermost ends of the lower end dependent leg portions 14 and 15 so as to enable suspension tapes secured to the sling to pass therethrough. Tabs 16 are also secured between the two sheets 11, 12, such as by the previous stitching operation, for a purpose which will become apparent hereinafter.

Tear lines 17 are provided at or adjacent to each of the edges where the two sheets 11 and 12 are secured together. These tear lines can be provided by a regularly spaced weakening of the material of the two sheets 11, 12, such as may be achieved by an ultrasonic heating technique. These tear lines 17 enable the two sheets 11, 12 to be separated by gripping the tabs 16 and tearing the cover along the

tear lines 17.

Straps 18 are secured to the sheet 11 adjacent to the uppermost edge of the main portion 13 and are connectible to pop fasteners 19 adjacent to the uppermost edge of the main portion 13 of sheet 12 to releasably fasten the cover to a sling.

In use, prior to lifting a patient in a lifting sling, a cover 10 as described above is provided on the sling. The cover 10 is disposed of prior to lifting another patient with the sling. In particular, the cover 10 is most useful when toileting a patient and the cover can be disposed of after each toileting procedure. Indeed, after a toileting procedure, the lower sheet of the cover can be separated from the upper sheet by tearing along the tear lines 17 and the lower sheet can be disposed of instantly. The upper sheet can then be disposed of after the patient has been lowered and removed from the sling.

Sling covers as described above can be made at a fraction of the cost of woven slings.

Ideally, it should not be possible to launder the sling covers. This will avoid re-use. To this end, it is envisaged that the edges may be secured together by a soluble thread so that the slings will fall apart if laundering is attempted.

The invention is not limited to covers for one-piece lifting slings, but may also be applied to other lifting slings. Also, tear lines may be provided at or adjacent

to just some of the secured edges. This will facilitate removal of the cover from the sling, although not allow the two sheets to be separated from one another.

The cover could be formed from two portions of a single sheet integral with
5 one another along one edge and folded about said one edge.

CLAIMS

1. A disposable cover for a lifting sling comprising two sheets (or sheet portions) of non-woven impermeable material secured together along first edges to
5 define therebetween a pocket for receiving a lifting sling.

2. A disposable cover as claimed in claim 1, wherein a tear line is provided at or adjacent to at least one of said first edges to facilitate removal of the cover from the sling.

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3. A disposable cover as claimed in claim 2, wherein tear lines are provided at or adjacent to all of said first edges so that the two sheets (or sheet portions) of material can be separated from one another.

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4. A disposable cover as claimed in claim 2 or claim 3, wherein one or more tabs is/are secured to said at least one first edge, the tab or tabs being manually grippable to enable the cover to be torn along the tear line or lines.

5. A disposable cover as claimed in any one of the preceding claims, wherein
20 the cover is shaped to receive a one piece body support sling which will support the back and thighs of a patient.

6. A disposable cover as claimed in claim 5, wherein the cover includes a main portion for receiving a main portion of a sling which portion in use supports the

back of a patient and lower end dependent leg portions for receiving lower end dependent leg portions of a sling which portions in use respectively extend beneath and upwardly between the thighs of a patient.

5 7. A disposable cover as claimed in any one of the preceding claims, wherein releasable fastening means are provided along at least one second edge of the cover for fastening the cover to a sling.

10 8. A disposable cover substantially as hereinbefore described with reference to the accompanying drawings.

9. A method of preventing cross-infection between patients lifted in body support slings suspended from a lifting hoist, the method comprising the steps of:

15 a. providing a disposable cover on the sling.
 b. lifting the patient in the sling, and
 c. disposing of the cover prior to lifting another patient with the sling.

20 10. A method as claimed in claim 9, wherein step (b) comprises toileting the patient and wherein the cover is disposed of after each toileting procedure.

11. A method as claimed in claim 9 or claim 10, using a sling cover as claimed in any one of claims 1 to 8.

ABSTRACT

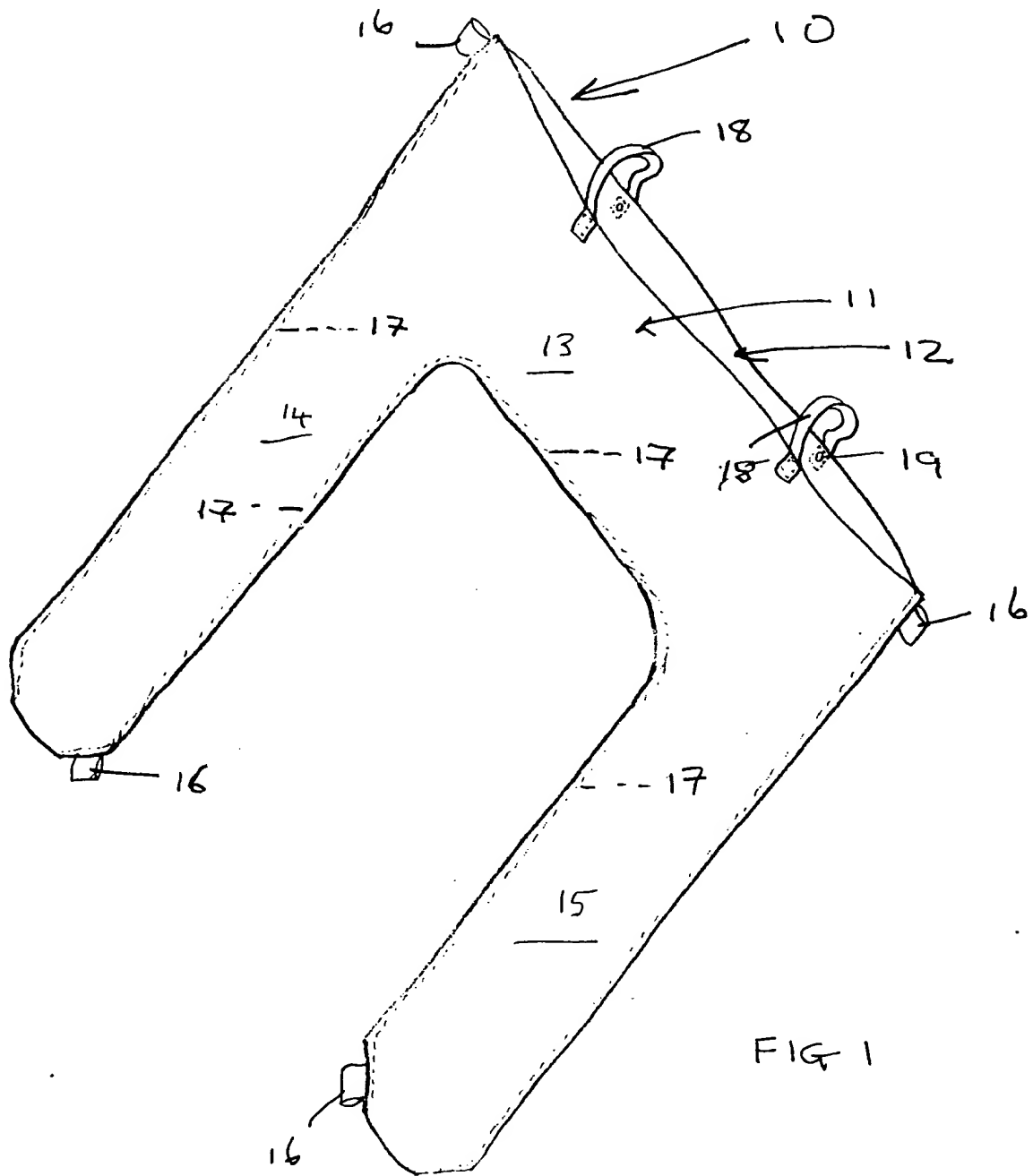
A DISPOSABLE COVER FOR A LIFTING SLING

5 The disposable cover comprises two sheets 11,12 of non-woven
impermeable material secured together along first edges to define therebetween a
pocket for receiving a lifting sling. Preferably, a tear line 17 is provided at or
adjacent to at least one of said first edges to facilitate removal of the cover from the
sling.

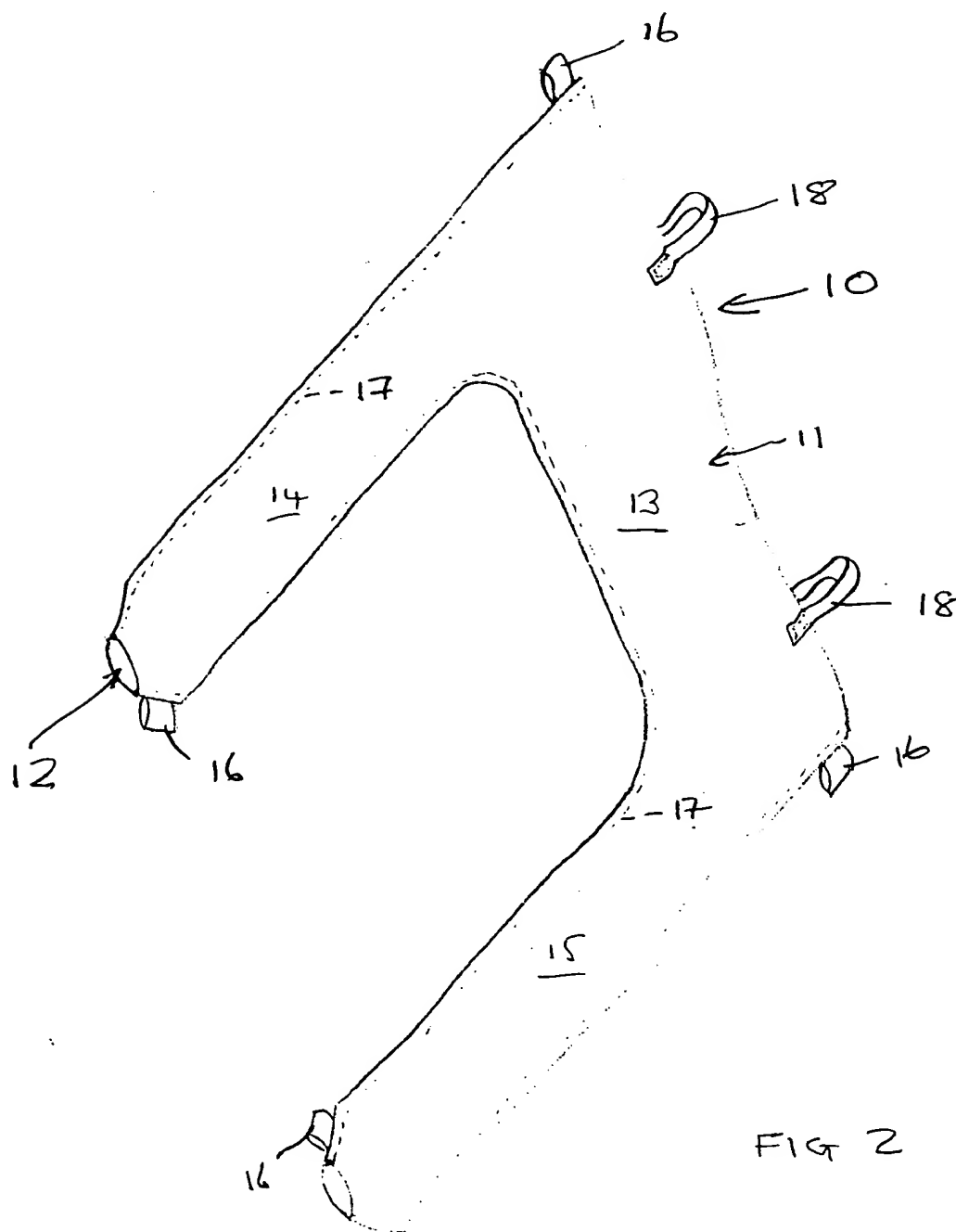
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(Refer to Figure 1)

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